

WHAT IS CLAIMED IS:

1. A method for detecting one or more metastatic lesions comprising:
 - 5 a) administering to a subject an effective amount of a labeled molecule which specifically binds to a urokinase plasminogen activator receptor;
 - b) 10 delaying detecting for a time interval following the administering for permitting the labeled molecule to preferentially concentrate at any metastatic lesion in the subject and for unbound labeled molecule to be cleared to background level;
 - c) 15 determining background level; and
 - d) detecting the labeled molecule in the subject, wherein detection of the labeled molecule above the background level indicates the presence of a metastatic lesion.
- 20 2. The method of claim 1 in which the subject is a human.
3. The method of claim 1 in which the molecule is an antibody to a urokinase plasminogen activator receptor or a
25 portion of said antibody containing the binding domain thereof.
4. The method of claim 1 in which the molecule is a humanized antibody.
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5. The method of claim 1 in which the molecule comprises the amino acid sequence depicted in Figure 1 (SEQ ID NO:1) or Figure 2 (SEQ ID NO:2).
- 35 6. The method of claim 1 in which the labeled molecule is labeled with a radioisotope.

7. The method of claim 1 in which the labeled molecule is detected *in vivo*.

8. The method of claim 1 in which the time interval is 5 6 hours to 48 hours.

9. The method of claim 1 in which the labeled molecule is administered intravenously.

10 10. The method of claim 1 which further comprises repeating steps (a) through (d) at monthly intervals.

11. A method for detecting one or more metastatic lesions in a subject, comprising imaging said subject at a 15 time interval after administration to said subject of an effective amount of a labeled molecule which specifically binds to a urokinase plasminogen activator receptor, said time interval being sufficient to permit the labeled molecule to preferentially concentrate at any metastatic lesion in 20 said subject and for unbound labeled molecule to be cleared to background level, wherein detection of the labeled molecule above the background level indicates the presence of a metastatic lesion.

25 12. The method of claim 11 in which the subject is a human.

13. The method of claim 11 in which the molecule is an antibody to a urokinase plasminogen activator receptor or a 30 portion of said antibody containing the binding domain thereof.

14. The method of claim 11 in which the molecule is a humanized antibody.

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15. The method of claim 11 in which the molecule comprises the amino acid sequence depicted in Figure 1 (SEQ ID NO:1) or Figure 2 (SEQ ID NO:2).

5 16. The method of claim 11 in which the labeled molecule is labeled with a radioisotope.

17. The method of claim 11 in which the time interval is 6 hours to 48 hours.

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